

Purchasing Receipts

Dart Hawkesbury  
1270 (Elm) Street Hawkesbury, ON K6A 1K7 Canada  
Tel (613) 632-5200  
Fax 613 632-5246

Plex 8/8/2018 12:49 PM *dart.Tollis.Andrew*



PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

Shipment Details				Final Destination Branch - TOR			
<b>Ship From:</b>	<b>Sold To:</b>			<b>Ship To:</b>	<b>Deliver To:</b>		
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON CA			DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN	DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA		
<b>Date Shipped</b>	<b>F.O.B.</b>	<b>Freight Terms</b>	<b>Carrier</b>	<b>BOL No</b>			
07-AUG-18	ORIGIN	Prepaid	MANITOULIN	36668060-2			
<b>Order No</b>	<b>Line No</b>	<b>Item No</b>	<b>Description</b>	<b>Ordered Qty</b>	<b>Invoice Qty</b>		
5214678	2	4885	1.0000.SQ.303.STAINLESS.CD.ANN.132.0000-156.0000 SPECIFICATIONS: ASTM A582	12.00 FT	12.9167 FT		
<b>Purchase Order No</b>	<b>Part Number</b>						
40612							
<b>Details</b>	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #'S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS						
<b>Delivery No.</b>	<b>Mill/Source</b>	<b>Heat Number</b>	<b>Mech Id</b>	<b>PCS</b>	<b>Width (IN)</b>	<b>Length (IN)</b>	<b>Shipped Qty(LBS)</b>
122002497	VALBRUNA CORPORATION	 2272758	AT	1		155.0000	44.0000

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specific clauses forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made within 60 days of delivery. Material ruled to the correct size, or made to specification, will be accepted. The customer cannot be returned.

Reviewed by: Authorized Castle Metals Representative: AUG 07 2018 Date: Name: SUE KALOUS Date: 2005 TO



PACKING SLIP/  
CERTIFICATE OF CONFORMANCE

A. M. Castle & Co.

Page 1 of 1

Ship From:		Sold To:		Ship To:		Deliver To:	
A. M. CASTLE & CO. 2150 ARGENTIA ROAD MISSISSAUGA, ON L5N 2K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON CA		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CAN		DART AEROSPACE LTD 1270 ABERDEEN HAWKESBURY, ON K6A 1K7 CA	
Shipment Details							
Date Shipped	F.O.B.	Freight Terms	Carrier				
07-AUG-18	ORIGIN	Prepaid	MANITOULIN			BOI No	3668060-2
Final Destination Branch - TOR							
Order No	Line No	Item No	Description				
5214678	1	8741	1.0000.RD.7075.T7351.ALUMINUM.CF.144.0000 SPECIFICATIONS: AMS-QQ-A-225/9				
Purchase Order No	Part Number		Ordered Qty	Invoice Qty			
40612	ALL PAPERWORK MUST FOLLOW ORDER / CUSTOMER MUST RECEIVE AT TIME OF DELIVERY ALL MATERIAL MUST HAVE IDENTIFYING MARKINGS EX:HEAT #S Email P/s and certs to: clavoie@dartaero.com END USER: DART AEROSPACE END USE: COMMERCIAL AIRCRAFT PARTS		12.00 FT	12.0000 FT			
Delivery No.	Mill/Source	Heat Number	Mech Id	PCS	Width (IN)	Length (IN)	Shipped Qty(LBS)
122002575	ARCONIC INC	MA 20181096	1		144.0000	11.4000	

We hereby certify the material covered by this certification conforms in accordance with the above specifications and has been found to meet the applicable requirements for the material, including any specifications forming a part of the description. Test reports are on file subject to examination. All claims for defective material are waived unless made in writing to A.M. Castle & Co. within 60 days of the shipment. Material cut to the correct size, or made to order by the customer cannot be returned.

Reviewed by Authorized Castle Metals Representative:

AUG 07 2018

SUE KAHOU



Date Printed: 07-AUG-2018 02:46:23 PM

LSC8h99C



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

# PURCHASE ORDER PO040612

<b>Supplier:</b>	MEC002-VU Metaux Castle P.O. Box 4090 Stn A Toronto ON M5W 0E9 Canada	<b>PO No:</b>	PO040612
		<b>PO Date:</b>	7/26/18
		<b>Due Date:</b>	8/22/18
		<b>Purchase Order Revision:</b>	
		<b>Revision Date:</b>	
<b>Ship To:</b>	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	<b>Ship-To Contact:</b>	Lavoie, Chantal Phone: clavoie@dartaero.com
		<b>Via:</b>	Ground
		<b>Pymt Terms:</b>	Net 30
		<b>Freight Terms:</b>	
		<b>Special Comments:</b>	

*Revised*

## Items

Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1		M7075T6S6.000X0.250		7075-T6S Sheet 6" Thick Plate X 0.25" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	8/22/18	80 ft	0 ft	80 ft	\$14.35/ft	\$1,148.00
2		M7075T6S6.000X1.000		7075-T6S Sheet 6" Thick Plate X 1" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	8/22/18	60 ft	0 ft	60 ft	\$43.42/ft	\$2,605.20
3		M7075T6S1.500X1.500		7075-T6S Sheet 1.5" Thick Plate X 1.5" Wide : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	8/22/18	80 ft	0 ft	80 ft	\$20.50/ft	\$1,640.00
4		M7075T6S1.750X2.250		7075-T6 Sheet 1.750" X 2.250" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209 receive ft	Firmed	-	8/22/18	43.75 ft	0 ft	44 ft	\$40.86/ft	\$1,787.63

Line Item Note: 20 pc - 48.25" long

5	M7075T6S1.250X2.750		M7075T6S1.250" X2.750" Cut From Plate : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM	Firmed	-	8/22/18	12 ft	0 ft	12 ft	\$31.20/ft	\$374.40
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Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

PURCHASE ORDER  
PO040612

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
				B209 receive ft								
6		M7075T6S0.375X3.000		7075 T6 Sheet 0.375" X 3.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209	Firmed -		8/22/18	60 ft	0 ft	60 ft	\$11.86/ft	\$711.60
7		M7075T6S0.750X4.000		7075 T6 Sheet 0.750" X 4.000" : MATERIAL: 7075-T6/T62 ALUMINUM SHEET AS PER QQ-A-250/12 OR AMS-QQ-A-250/12 OR AMS 4045 OR ASTM B209	Firmed -		8/22/18	40 ft	0 ft	40 ft	\$28.58/ft	\$1,143.20
8		M7075T6S1.000X1.250		7075 T6 Sheet 1.000X1.250 : MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11 receive ft	Firmed -		8/22/18	12 ft	0 ft	12 ft	\$17.15/ft	\$205.80
9		M7075T73B1.250X02.000		7075-T73 Bar 1.250" X 2.000" Cut In Billet 30" Long : MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511 BAR PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 OR AMS 4124 OR AMS-QQ-A-250/12 OR AMS 4078 receive ft	Firmed -		8/22/18	25 ft	0 ft	25 ft	\$26.10/ft	\$652.50
Line Item Note 10 pcs cut at 30" long												
10		M7075T73R1.000		7075-T73 Round Bar 1.00 : MATERIAL: 7075-T73 OR 7075-T7351/T73510/T73511 ROUND BAR AS PER AMS-QQ-A-200/11 OR AMS-QQ-A-225/9 receive ft	Firmed -		8/13/18	12 ft	0 ft	12 ft	\$11.47/ft	\$137.64
11		M303B1.500X4.000		303 Bar 1.500" X 4.000" : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE	Firmed -		8/22/18	6 ft	0 ft	6 ft	\$238.50/ft	\$1,431.00
12		M303B1.000X1.000		M303B1.000 X 1.000 : MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT	Firmed -		8/13/18	12 ft	0 ft	12 ft	\$18.72/ft	\$224.64



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# PURCHASE ORDER PO040612

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
				ACCEPTABLE receive ft								
13		M2024T3S.090		2024-T3 .090 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed -		8/22/18	144 sf	0 sf	144 sf	\$8.16/sf	\$1,175.04
14		M4130NR0.375		4130 Steel Round Bar .375" : MATERIAL: AISI 4130N ROUND BAR AS PER MIL-S-6758 OR AMS 6348/6370/6528 receive ft	Firmed -		8/13/18	60 ft	0 ft	60 ft	\$2.37/ft	\$142.20
15		M2024T3S.063		2024-T3 .063 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed -		8/22/18	96 sf	0 sf	96 sf	\$6.51/sf	\$624.96
16		M2024T3S.080		2024-T3 .080 Sheet : MATERIAL: 2024-T3 ALUMINUM SHEET AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037 OR ASTM B209 receive sf	Firmed -		8/22/18	96 sf	0 sf	96 sf	\$6.86/sf	\$658.56
17 <i>AC</i>		M304R1.250		304 Round Bar 1.250 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed -		8/3/18	12 ft	0 ft	12 ft	\$10.42/ft	\$125.04 <i>18/08/07</i>
18		M304R1.500		304 Round Bar 1.500 : MATERIAL: AISI 304/316 SS ROUND BAR AS PER ASTM A276 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed -		8/3/18	12 ft	0 ft	12 ft	\$13.81/ft	\$165.72
19		M6061T6B2.000X08.000		6061-T6 Bar 2.00' X 8.00" (Cut In 4Ft Section) : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed -		8/14/18	8 ft	0 ft	8 ft	\$56.83/ft	\$454.64
Line Item Note: cut in section of 4 ft												
20		M303R1.250		303 Round Bar 1.250 : MATERIAL: AISI 303 SS	Firmed -		8/3/18	12 ft	0 ft	12 ft	\$11.80/ft	\$141.60



Dart Aerospace Ltd.  
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Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

## PURCHASE ORDER PO040612

Items												
Line Item	Job	Part	Supplier Part No	Description	Status	Account	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
				ROUND BAR AS PER ASTM A582 NOTE: 304/316 NOT ACCEPTABLE receive ft								

Grand Total: \$15,549.37

### Order Notes

- Procurement Quality Clauses
- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents
- A048 counterfeit parts avoidance, detection, mitigation and disposition program
- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 8/3/18 11:09 AM dart.baker.diane

*[Signature]*

**Castle Metals**

HEAT NUMBER: MA20181096  
MECHANICAL ID:  
ITEM CODE: 8741  
PO/LINE NUMBER: 468114  
RECEIPT NUMBER:  
SUPPLIER: ARCONIC  
SPECIFICATION:  
LCS: NO  
COMMENT:  
APPROVED: AMB

# Certified Inspection Report

05/31/18  
14:07:40

Arconic Inc.  
ARCONIC ENGINEERED STRUCTURES



Customer

**Castle A M & Co**

Customer P.O. No.

Customer Part No.

45 County Route 42, Massena, NY 13662

Arconic Order No.

Govt. Contract No.

ARCONIC

Ship To **Castle A M & Co**

3800 Enterprise Drive  
Janesville, WI 53546

Product

CFRB-CF ROD

Specific Length

BOL. 000165881

ORR

Joseph M. Vianeo, Quality Manager

MMC-C7112. -001

We hereby certify that the material covered in this report has been inspected in accordance with, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, or as previously agreed to with customer and that samples representative of the material met the composition limits and have the mechanical properties shown on the face of this sheet. Manufactured under a quality management system registered to ISO/AS9100. Melted and manufactured in the USA.

Date Shipped	05/31/18	Weight Shipped	479 lbs	Product	CFRB-CF ROD	Specific Length	12 FT	Shane	DIA	Config	12 FT
Alloy - Temper	(8075-T7351)	Size	1.00000 IN								

Specifications:

A97075-11 Rev 15  
AMS4124E  
ASFM4211-12E1  
AMS-QQ-A-22579A  
DO-A-22579E

Material conforms to T73 requirements

TEST REQUIREMENTS	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test	Test
	U.T.S.	T.Y.S.	%Elong	Cond	Test	T.Y.S.	%Elong	Cond	Test	T.Y.S.	%Elong
Test Results	No. of				Test	Test	Test	Test	Test	Test	Test
Lot Work Order	3				U.T.S.	T.Y.S.	%Elong	Cond	Test	T.Y.S.	%Elong
					Max:	76.4	65.6	15.0	39.6	76.3	65.7
					Min:	76.0	56.0	10.0	38.0	76.3	59.4

When 2 or more tests per lot are made, the highest and lowest values are reported.  
Analysis obtained from one or more samples in this lot.

TEST ABBREVIATIONS

U.T.S. Ultimate Tensile Strength KSI

Cond Conductivity % IACS

T.Y.S. Tensile Yield Strength KSI .2% offset

%Elong Elongation % in. 2"

Aluminum Association Chemical Composition Limits (in Weight %)

ALLOY	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Others	%Others	%Al
7075	MAX 0.40	0.50	2.0	0.30	2.9	0.28	6.7	0.20	0.05	0.15	Rem

Actual Started Chemistry

LOT/WORK ORDER	%Si	%Fe	%Cu	%Mn	%Mg	%Cr	%Zn	%Ti	%Others	%Others	%Al
MA20181096	MAX 0.07	0.15	1.6	0.02	2.5	0.20	5.7	0.03	LT 0.05	LT 0.15	Rem

# Certified Inspection Report

05/31/18  
14-0740

Arconic Inc.  
ARCONIC ENGINEERED STRUCTURES



Customer <b>Castile AM &amp; Co</b>	Customer P.O. No. <b>468114</b>	Customer Part No. <b>187411</b>	Arconic Order No. <b>MMC-C7112-001</b>	Govt. Contract No.
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## NOTES:

Ingot Source: Massena  
Material compliant with DFARS 252.225-7001 (Buy American Act)  
Mercury is not a normal contaminant in aluminum alloys and neither it nor any of its compounds are used in the manufacture of our product.  
This alloy meets the requirements of EU 2011/65/EC (RoHS) and EU 2000/53/EC (for lead, mercury, cadmium and hexavalent chromium).

THESE ITEMS ARE CONTROLLED BY THE U.S. GOVERNMENT AND AUTHORIZED FOR EXPORT ONLY TO THE COUNTRY OF ULTIMATE DESTINATION FOR USE BY THE ULTIMATE CONSIGNEE OR END-USER(S) HEREIN IDENTIFIED. THEY MAY NOT BE RESOLD, TRANSFERRED, OR OTHERWISE DISPOSED OF TO ANY OTHER COUNTRY, OR TO ANY PERSON OTHER THAN THE AUTHORIZED ULTIMATE CONSIGNEE OR END-USER(S), EITHER IN THEIR ORIGINAL FORM OR AFTER BEING INCORPORATED INTO OTHER ITEMS, WITHOUT FIRST OBTAINING APPROVAL FROM THE U.S. GOVERNMENT OR AS OTHERWISE AUTHORIZED BY U.S. LAW AND REGULATIONS.

MATERIAL IS OF U.S.A. ORIGIN AND WE HEREBY CERTIFY THE PRICES TO BE TRUE AND CORRECT.

**DART**

DESIGN <i>CP</i>	DRAWN BY <i>GP</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>#</i>	APPROVED <i>#</i>	DRAWING NO. <i>M7075T73R</i>	REV. A SHEET 1 OF 1
DATE <i>03.07.03</i>	TITLE <i>7075-T73 ROUND BAR</i>		SCALE 1:1
A	03.07.03	NEW ISSUE	

**RELEASED**

03.10.10 #

PURCHASE MATERIALS *7075-T73 (or 7075-T7351/T73510/T73511) ROUND BAR*  
PER AMS QQ-A-200/11 OR *AMS-QQ-A-225/1*

PART NUMBER: M7075T73R | D.DDD | WHERE D.DDD = DIAMETER IN INCHES  
                          | DIA |

EG. *7/8"* ROUND BAR = M7075T73R0.875

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# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M7075T73R1.000  
 DATE: 18/08/08

PO / BATCH NO.: P0040612/S100175

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 12ft  
 QUANTITY INSPECTED: 12ft  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.00"  
 THICKNESS RECEIVED: 1.00"  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT FINISH	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORROSION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	AMS-QQ-A-225/9
CORRECT THICKNESS	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
PHOTO REQUIRED	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	MT. MA20181046
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/08</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

**CASTLE METALS**

HEAT NUMBER

272758

MECHANICAL ID

ITEM CODE

4885

PO NUMBER

461884

RECEIPT DATE

SUPPLIER

Valbruna

SPECIFICATION

LCS

-

COMMENTS

APPROVED

QH3



VALBRUNA

SLATER STAINLESS, INC.  
2400 TAYLOR STREET WEST - PO BOX 630  
FORT WAYNE IN 46802 USA  
PHONE 260 434 2800 - FAX 260 434 2801

## Product Certification Report

Report Number: 5524711

Certified on Jul 14, 2018 Page 1 of 1

Order I.D.	Order Date	Commodity Code		
OA18001445 0010	3/21/18	4885 -JAC		
Dim 1	Dim 2	Heat I.D.	Customer I.D.	Customer Purchase Order
1.0000	1.0000	272758	0008000061	461884
Product Shape	Product Surface		Customer Grade	
Square	Cold Drawn Finish		303	
Length (inches)	Bill of Lading #		Weight	
.000 Min.	.000 Max.	PL18001799/1	002005	LBS

A.M. CASTLE & CO.  
3800 ENTERPRISE DRIVE  
Ship JANESVILLE, WI 53546  
To

VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
FORT WAYNE, IN, IN 46802  
*Sold To*

Lifts: 0068

AISI 303	Condition A	3303-22 REV 35
QQ-S-764B AMD.2	UNS S30300	ASTM A484-18
ASTM A582-12	AMS 5640V TYPE 1	

CHEMICAL ANALYSIS

C	Mn	P	S	Si	Cr	Ni	Mo	Cu	Co	N
.045	1.72	.030	.29	.67	17.44	8.05	.36	.52	.14	.03

BRINELL Type A device E10-15a

HBW

203

ROOM TEMP TENSILE ASTM E8-16a

TS (PSI)	.2%YS (PSI)	%EL (4d)	%RA
104100	57300	50.2	59.8

MACRO ASTM E340-15/E381-01(12)

MACRO  
OK

No welding or weld repair done.

Material when shipped is free from contamination by mercury, radium, alpha source, and low melting elements.

Reduction Ratio Exceeds 4:1

Electric Furnace melted; AOD refined.

Material is RoHS compliant.

Chemical testing to one or more of the listed ASTM methods:

E1019-11, E1086-14.

Location of tensile fracture: inside middle of gage length. %elong after fracture.

Chemical Analysis performed at Acciaierie Valbruna, Italy.

No mercury or low melting alloy contamination. No weld repair.

Melted and manufactured in Italy.

Material conforms to listed specifications. DFARS compliant. Our heat treat furnaces use air atmosphere.

Quality system is compliant with ISO 9001:2015. Produced in accordance with EN 10204 3.1.

Results relate only to the items tested. Certification shall not be reproduced except in full, without written approval of Valbruna Stainless Inc. The recording of false, fictitious, or fraudulent statements on this document may be punished as a felony under federal statutes. Including Federal law Title 18, Chapter 47. Consult material safety data sheet (MSDS) for hazard info. I hereby certify that the reported figures are correct as contained in the records of the corporation.

Manager Laboratory Services

*Tad Landwehr*

Email: TLandwehr@valbruna.us

Tad Landwehr

# SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: AISI 303 SS BAR  
(NOTE: AISI 304/316 NOT ACCEPTABLE)

ASTM A582

M303BT.TTT X|WW.WWW |  
THICK | WIDTH |

WHERE "T.TTT" = THICKNESS IN INCHES  
AND "WW.WWW" = WIDTH IN INCHES  
EG. 0.5" x 3.0" BAR = M303B0.500X03.000

△ SPECIFICATION:  
PART NUMBER:

RELEASED  
R 2010-07-02

*[Signature]*

B	REFORMATTED DWG. ADD SPEC'S (ZN DB 1). REF PART #G-020A	CP 10/01/05
A	NEW ISSUE	DS 02/05/29
REV.	DESCRIPTION	BY DATE
D	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DESIGN		
DRAWN		
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	10/01/05	NTS

1  
2  
3  
4  
5  
6  
7  
8

A	REFORMATTED DWG. ADD SPEC'S (ZN DB 1). REF PART #G-020A	CP 10/01/05
A	NEW ISSUE	DS 02/05/29
REV.	DESCRIPTION	BY DATE
D	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DESIGN		
DRAWN		
CHECKED		
MFG. APPR.		
APPROVED		
DE APPR.		
DATE	10/01/05	NTS

1  
2  
3  
4  
5  
6  
7  
8

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M303B1.000x1.000  
 DATE: 18/08/08

PO / BATCH NO.: P0240612/S100175

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 1261  
 QUANTITY INSPECTED: 1261  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.00 "  
 THICKNESS RECEIVED: 1.00 "  
 SHEET SIZE ORDERED: —  
 SHEET SIZE RECEIVED: —

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT FINISH	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORROSION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<i>ASTM A582</i>
CORRECT THICKNESS	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
PHOTO REQUIRED	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	<i>HT: 272758</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
CORRECT MM# ON THE MATERIAL	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="checkbox"/> <input type="checkbox"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/> <input type="checkbox"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>AT</u>	SIGNED OFF BY: _____
DATE: <u>18/08/08</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in